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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/651,548	08/29/2000	Barry Atkins	RPS920000026US1	9903	
7590 04/07/2004 BRACEWELL & PATTERSON, L.L.P. Intellectual Property Law P.O. Box 969			EXAM	EXAMINER	
			SHIN, KY	SHIN, KYUNG H	
			ART UNIT	PAPER NUMBER	
	Austin, TX 78767-0969			A.	
,			2132 DATE MAILED: 04/07/2004	8	

Please find below and/or attached an Office communication concerning this application or proceeding.

1	Applicati n	Applicant(s)			
Office Anti-us Occurrence	09/651,548	ATKINS ET AL.			
Offic Action Summary	Examin r	Art Unit			
	Kyung H Shin	2132			
The MAILING DATE f this c mmunicati n app Peri d for Reply	ears nth c versheet with th c	rrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).  Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).					
Status					
1) Responsive to communication(s) filed on 29 Au	<u>ıgust 2000</u> .				
2a) ☐ This action is <b>FINAL</b> . 2b) ☑ This	This action is <b>FINAL</b> . 2b)⊠ This action is non-final.				
3) Since this application is in condition for allowar	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is				
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disp sition of Claims					
4)⊠ Claim(s) <u>1-24</u> is/are pending in the application.					
4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>1-24</u> is/are rejected.	·				
7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/o	r election requirement.				
Application Papers					
9) The specification is objected to by the Examiner.					
10)⊠ The drawing(s) filed on <u>29 August 2000</u> is/are: a) accepted or b) objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:					
1. Certified copies of the priority documents have been received.					
<ul> <li>2. Certified copies of the priority documents have been received in Application No</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage</li> </ul>					
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).					
* See the attached detailed Office action for a list of the certified copies not received.					
Attachment(s)					
1) Notice of References Cited (PTO-892)  4) Interview Summary (PTO-413)  Paper No(s)/Mail Date					
<ul> <li>2) Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> <li>3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)</li> <li>Paper No(s)/Mail Date 2.6.</li> </ul>		ate Patent Application (PTO-152)			

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#### **DETAILED ACTION**

- 1. This action is responding to application papers dated 8/29/2000.
- 2. Claims 1-24 are pending. Claims 1, 9, and 17 are independent.

## Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 4. Claims 1- 24 are rejected under 35 U.S.C. 102(e) as being unpatentable over Challener et al. (U.S. Patent No. 6,704,868 B1: Methods for Associating for a Pass Phase with a Secured Public/Private Key Pair, File date Nov. 12, 1999).

**Regarding Claim 1, 9, 17,** Challener discloses a method, a system and program product for managing a user key used to sign a message for a data processing system, said method comprising:

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- a) assigning a user key to a user and storing the user key in a data processing system for encrypting messages; (see col. 2, lines 35 37, and col. 5, lines 55 57: "Protected storage area 33 is utilized to store user public/private key pairs.")
- b) encrypting the messages with the user key; (see col. 4, lines 8 13: "When an application needs to transmit an encrypted message ..... accesses the user private key ..., and then encrypts the message or signs a signature utilizing the user private key.")
- c) storing an associated key in the data processing system and encrypting the user key with the associated key to obtain an encrypted user key; (see col. 4, lines 20 28: "A random password, ...., to be associated with the user public/private key pair is then generated for the user, ..... Utilizing a chip public key, the random password is first encrypted along with the user public/private key pair,")
- d) communicating encrypted messages in conjunction with the encrypted user key to validate an association of the user with the encrypted messages; (see col. 2, lines 12 15: "In order to allow the signature chip to perform an authentication procedure, such as signing signatures, a user must provide a correct password to the signature chip.")
- e) thereafter, preventing validation of the association of the user with messages by revoking the associated key. (see col. 4, lines 33 36: "... the user public/private key pair outside the signature chip can be discarded (by the human user) for security reasons,")

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f) computer usable media bearing said control program. (see col. 5, lines 44 - 51: "

the present invention are capable of being distributed as a <u>program</u> product in a

variety of forms,")

**Regarding Claim 2, 10, 18,** Challener discloses the method, system and program product according to Claims 1, 9, 17, further comprising:

- a) decrypting the user key with the associated key; (see col. 4, lines 61 62: "The signature chip <u>decrypts</u> the encrypted package of the first password and first symmetric key.")
- b) decrypting the messages with the user key. (see col. 2, lines 4 6: "when a message is encrypted utilizing a user public key, the encrypted message may only be decrypted utilizing a user private key.")

Regarding Claim 3, 11, 19, Challener discloses the method, system and program product according to Claim 1, 9, 17, wherein the data processing system further comprises a client system having a client memory device coupled to a server system having an encryption chip and a server memory device and wherein:

a) storing the user key in a data processing system for encrypting messages further comprises storing the *user* key in the *client* memory device; (see col. 3, lines 62 - 64: " ... user of computer system 10 has a separate and unique user public/private key pair established for each application within computer system")

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b) storing the associated key in the data processing system further comprises storing the associated key in the server memory device; (see col. 2, lines 19 - 22: "Thus, a user private key and its respective password can only be unwrapped inside the signature chip,")

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c) preventing validation further comprises preventing the validation of the messages associated with the user by eliminating the associated key from the server memory device. (see col. 4, lines 33 – 36: "any record of the user public/private key pair outside the signature chip can be discarded (by the human user) for security reasons,")

**Regarding Claim 4, 12, 20,** Challener discloses the method, system and program product according to Claim 3, 11, 19, wherein encrypting the messages further comprises:

- a) sending the messages to be encrypted from the client system to the server system; (see col. 4, lines 58 61: ".... the encrypted package of the first password and first symmetric key (from the hard disk) are then sent to the signature chip.")
- b) encrypting the messages using the encryption chip of the server system; (see col. 4, lines 47 49: "Utilizing the chip public key, the first password is then encrypted along with the first symmetric key, as depicted in block 48.")
- c) sending the encrypted messages from the server system to the client system. (see col. 4, lines 49 51; "The encrypted package of the first password and first symmetric key is then stored in the hard disk")

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Regarding Claim 5, 13, 21, Challener discloses the method, system and program product according to Claims 4, 12, 20, further comprising: *erasing* from the server system all data relating to the encrypted messages after the encrypted messages are sent from the server system to the client system. (see col. 4, lines 33 – 36: "any record of the user public/private key pair outside the signature chip can be discarded (by the human user) for security reasons,")

Regarding Claim 6, 14, 22, Challener discloses the method, system and program product according to Claim 1, 9, 17, further comprising: *encrypting* the associated key by using an encryption chip key which is stored on an encryption chip of the data processing system. (see col. 6 lines 38 - 40: "Then, the user public/private <u>key</u> pair is encrypted along with a random password, utilizing a chip public <u>key</u>.")

**Regarding Claim 7, 15, 23,** Challener discloses the method, system and program product according to Claims 6, 14, 22, further comprising:

- a) encrypting the associated key with the encryption chip key; (see col. 6 lines 38 40: "Then, the user public/private <u>key</u> pair is <u>encrypted</u> ..... utilizing a chip public <u>key</u>.")
- b) communicating an encrypted associated key to validate the association of the user with the encrypted messages. (see col. 2, lines 12 15: "In order to allow the signature chip to perform an authentication procedure, such as signing signatures, a user must provide a correct password to the signature chip.")

Regarding Claim 8, 16, 24, Challener discloses the method, system and program product according to Claims 7, 15, 23, further comprising: *decrypting* the associated key with the encryption chip key. (see col. 4, lines 61 – 62: "The signature chip <u>decrypts</u> the encrypted package of the first password and first symmetric key.")

#### **Conclusion**

#### **Prior Art**

- The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
  - a. U.S. Patent No. 6,487,658 to Micali discloses Efficient Certificate Revocation.
  - b. U.S. Patent No. 5,519,778 to Leighton discloses Method for Enabling Users of a Cryptosystem to Generate and use a Private Pair Key for Enciphering
     Communications between the Users.
  - c. European Patent Application No. EP1185024 A2 discloses System, Method, and Program for Managing a User Key used to Sign a Message for a Data Processing System.
  - d. RSA, http://searchsecurity.techtarget.com/sDefinition/0,,sid14\_gci214273,00.html

### **Contact Information**

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kyung H Shin whose telephone number is 703-305-0711. The examiner can normally be reached on 6:30 am - 4:30 pm.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gilberto Barron can be reached on 703-305-1830. The fax phone number

for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for

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you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free).

KHS

Kyung H Shin Patent Examiner Art Unit 2132

KHS March 31, 2004

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